

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number  
**WO 2004/041969 A1**

- (51) International Patent Classification<sup>7</sup>: **C10G 2/00**
- (21) International Application Number:  
PCT/EP2003/012164
- (22) International Filing Date: 30 October 2003 (30.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
02079645.4 5 November 2002 (05.11.2002) EP  
60/427,409 19 November 2002 (19.11.2002) US
- (71) Applicant (for all designated States except US): **AKZO NOBEL N.V.** [NL/NL]; Velperweg 76, NL-6824 BM Arnhem (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **VOGT, Eelco, Titus, Carel** [NL/NL]; Postmastraat 16, NL-4105 DW Culemborg (NL). **VERLAAN, Johannes, Petrus, Josef** [NL/NL]; Keurkampstraat 22, NL-7415 DL Deventer (NL). **SPEE, Marieke, Paulyne, Rénate** [NL/NL]; Texel 95, NL-3524 AS Utrecht (NL).
- (74) Agent: **SCHALKWIJK, Pieter, Cornelis; Akzo Nobel N.V.**, Intellectual Property Dept. (Dept. AIP), P.O. Box 9300, NL-6800 SB Arnhem (NL).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FISCHER-TROPSCH PROCESS USING A FISCHER-TROPSCH CATALYST AND ZEOLITE Y

(57) Abstract: Fischer-Tropsch process for the conversion of carbon monoxide and hydrogen to C<sub>5</sub><sup>+</sup> hydrocarbon mixtures in which process use is made of Fischer-Tropsch catalyst particles and particles comprising zeolite Y with a water adsorption capacity (25°C, p/p<sub>0</sub>=0.20) of at least 16 wt%.

WO 2004/041969 A1